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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/982,997	10/22/2001	Kenji Fukasawa	4468-031	7780

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EXAMINER

BAKER, CHARLOTTE M

ART UNIT	PAPER NUMBER
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2626

DATE MAILED: 05/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/982,997

Applicant(s)

FUKASAWA, KENJI

Examiner

Charlotte M. Baker

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 October 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 04/05/2005
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☒ Other: Detailed Action

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the projector must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

3. The abstract of the disclosure is objected to, remove "Figure 1" text at the end of the abstract. Correction is required. See MPEP § 608.01(b).
4. The disclosure is objected to because of the following informalities: p. 6, first full par., replace "about these the" with --about the--; p. 6, second full par., replace "processing of these each structures section" with--processing of each of these structure sections--; p. 7, last par., replace "LAN adaptor" with--LAN adapter--; p. 14, second full par., replace "input signals is reproduced" with --input signals are reproduced--; p. 14, second full par., replace "more widely color space" with --wider color space--; p. 15, second full par., replace "input signal is reproduced" with --input signal are reproduced--; p. 15, second full par., replace "more widely color space" with --wider color space--.

Appropriate correction is required.

Claim Objections

5. Claim 1 is objected to because of the following informalities: replace "gamut of image input signal" with--gamut of an image input signal--; replace "substantially corresponded to" with--substantially corresponding to--. Appropriate correction is required.
 6. Claim 6 is objected to because of the following informalities: replace "image processing to image input signal" with --image processing to an image input signal--. Appropriate correction is required.
 7. Claim 7 is objected to because of the following informalities: replace "image processing to image input signal" with --image processing to an image input signal--. Appropriate correction is required.
-

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

9. Claims 1-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Takahashi et al. (6,882,445).

Regarding claim 1: Takahashi et al. disclose having a white point (reference point) of a gamut (color gamut) of an image input signal (Fig. 1, information input 21) substantially corresponding to a maximum brightness point (Fig. 5, S2) having a same chromaticity (same chroma) as said white point (reference point) and a maximum brightness in a gamut of an output device (Fig. 1, information output 22); and generating a three dimensional color correction table (LUT which corresponds the RGB space and the L*a*b* color space, col. 11, ln. 57-col. 12, ln. 12), which correlates a color point (Fig. 5) in the gamut of the image input signal (Fig. 5, input color gamut) to a color point in the gamut of the image output device (Fig. 5, output color gamut), in a specified color space wherein said white point (reference point) of a gamut of the image input signal (Fig. 5, input color gamut) substantially corresponds to said maximum brightness point (Fig. 5, S2) (col. 18, ln. 28-58).

Regarding claim 2: Takahashi et al. disclose an image processing device (Fig. 1, color gamut compression part 1) executing an image processing to an image input signal (Fig. 1, information input 21) with referring to a three dimensional color correction table (LUT which corresponds

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the RGB space and the $L^*a^*b^*$ color space, col. 11, ln. 57-col. 12, ln. 12), which correlates a color point (Fig. 5) in the gamut of the image input signal (Fig. 5, input color gamut) to a color point (Fig. 5) in the gamut of the image output device (Fig. 5, output color gamut), in a specified color space wherein a white point (reference point) of a gamut of the image input signal (Fig. 5, input color gamut) substantially corresponds to a maximum brightness point (Fig. 5, S2) having a same chromaticity as said white point (reference point) and a maximum brightness (Fig. 5, S2) in a gamut of an output device (Fig. 5, output color gamut) (col. 18, ln. 28-58).

Regarding claim 3: Takahashi et al. satisfy all the elements of claim 2. Takahashi et al. further disclose wherein the color space is a CIELAB color space, a CIELUV color space or a Yxy color space (col. 14, ln. 32-36).

Regarding claim 4: Takahashi et al. satisfy all the elements of claim 2. Takahashi et al. further disclose wherein the white point (reference point) substantially corresponds to the maximum brightness point (Fig. 5, S2) by scaling (shifting) the gamut (col. 18, ln. 43-58).

Regarding claim 5: Takahashi et al. satisfy all the elements of claim 2. Takahashi et al. further disclose wherein a color point (Fig. 5) out of the gamut of the image output device (Fig. 5, output color gamut) and in the gamut of the image input signal (Fig. 5, input color gamut) is correlated to a color point (Fig. 5) in the gamut of the image output device (Fig. 5, output color gamut) (col. 12, ln. 36-54).

Regarding claim 6: The structural elements of apparatus claim 2 perform all of the steps of method claim 6. Thus, claim 6 is rejected for the same reasons discussed in the rejection of claim 2.

Regarding claim 7: Takahashi et al. disclose a computer-readable medium (Fig. 1, color gamut compression part 1) storing a program of instructions for execution by the computer (LUT and computations performed by the color gamut compression part 1 are inherent to a computer) to perform an image processing (LUT which corresponds the RGB space and the $L^*a^*b^*$ color space, col. 11, ln. 57-col. 12, ln. 12) to image input signal (Fig. 5, input color gamut) with referring to a three dimensional color correction table (LUT which corresponds the RGB space and the $L^*a^*b^*$ color space, col. 11, ln. 57-col. 12, ln. 12), which correlates a color point (Fig. 5) in the gamut of the image input signal (Fig. 1, information input 21) to a color point (Fig. 5) in the gamut of the image output device (Fig. 5, output color gamut), in a specified color space (col. 14, ln. 32-36) wherein a white point (reference point) of a gamut of the image input signal (Fig. 5, input color gamut) substantially corresponds to a maximum brightness point (Fig. 5, S2) having a same chromaticity (same chroma) as said white point (reference point) and a maximum brightness (Fig. 5, S2) in a gamut of an output device (Fig. 5, output color gamut) (col. 18, ln. 28-58).

Regarding claim 8: Takahashi et al. disclose a computer-readable medium (Fig. 1, color gamut compression part 1) storing a three dimensional color correction Table (LUT which corresponds the RGB space and the $L^*a^*b^*$ color space, col. 11, ln. 57-col. 12, ln. 12), which correlates a color point (Fig. 5) in the gamut of the image input signal (Fig. 5, input color gamut) to a color point (Fig. 5) in the gamut of the image output device (Fig. 5, output color gamut), in a specified color space (col. 14, ln. 32-36) wherein a white point (reference point) of a gamut of the image input signal (Fig. 5, input color gamut) substantially corresponds to a maximum brightness point (Fig. 5, S2) having a same chromaticity (same chroma) as said white point (reference point) and

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a maximum brightness (Fig. 5, S2) in a gamut of an output device (Fig. 5, output color gamut) (col. 18, ln. 28-58).

Regarding claim 9: Takahashi et al. satisfy all the elements of claim 2. Takahashi et al. disclose a projector (input apparatus 21 as a monitor, col. 9, ln. 65). A monitor is a projection device and Fig. 1 details the color gamut compression apparatus, which includes the monitor (input apparatus 21) and the associated image processing.


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charlotte M. Baker whose telephone number is (571)272-7459. The examiner can normally be reached on Monday-Friday 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly A. Williams can be reached on (571)272-7471. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


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